

-18-

## NON-VOLATILE WRITE CACHE, IN A DISC DRIVE, USING AN ALTERNATE POWER SOURCE

### **Abstract of the Disclosure**

5 A non-volatile write cache using an alternate power source is implemented in a disc drive to maintain the integrity of cached write commands during a standard disc drive power loss, and to further recover and execute outstanding cached write commands when standard disc drive power is restored. The disc drive includes an internal or external alternate power source, control circuitry to switch between normal and low-power modes, memory control circuitry to, when in  
10 low-power mode, maintain the refresh of the cache, and firmware to recover and execute cached write commands once power is restored.